

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<u>09194321</u>	<u>6284798</u>	150	10/18/1999	GUANIDINE DERIVATIVES, METHODS OF PREPARING THEM AND THEIR USE AS DRUGS	AMTMANN, EBERHARD
<u>06892346</u>	<u>4851435</u>	150	08/01/1986	ANTIVITAL AND ANTITUMOR XANTHATE PHARMACEUTICAL COMPOSITIONS	AMTMANN, EBERHARD
<u>08337887</u>	Not Issued	161	11/14/1994	ANTIVIRAL AND ANTITUMOR PHARMACEUTICAL COMPOSITIONS	AMTMANN, EBERHARD
<u>07781125</u>	Not Issued	161	03/13/1992	ANTI-TUMOR AGENTS HAVING REDUCED TOXICITY ON THE BASIS OF CYTOSTATIC AGENTS AND XANTHOGENATES	AMTMANN, EBERHARD
<u>09784618</u>	Not Issued	071	02/15/2001	MEDICAMENT CONTAINING PLATINUM COMPLEX COMPOUNDS AND THE USE THEREOF	AMTMANN, EBERHARD
<u>09815992</u>	Not Issued	164	03/23/2001	NEW GUANIDINE DERIVATIVES, PROCESSES FOR PREPARING THEM AND THEIR USE AS PHARMACEUTICAL COMPOSITIONS	AMTMANN, EBERHARD
<u>10220905</u>	Not Issued	019	01/01/0001	SPHINGOMYELINASE ENZYMES AND USES RELATING THERETO	AMTMANN, EBERHARD
<u>09815995</u>	<u>6444706</u>	150	03/23/2001	GUANIDINE DERIVATIVES, PROCESSES FOR PREPARING THEM AND THEIR USE AS PHARMACEUTICAL COMPOSITIONS	AMTMANN, EBERHARD

Inventor Search Completed: No Records to Display.

	Last Name	First Name	
Search Another: Inventor	<input type="text" value="Amtmann"/>	<input type="text" value="Eberhard"/>	<input type="button" value="Search"/>

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L2 1 THIOPLATIN

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AN 2001:422765 CAPLUS

TI Antitumoral activity of a sulphur-containing platinum complex with an acidic pH optimum

AU Amtmann, Eberhard; Zoller, Margot; Wesch, Horst; Schilling, Gerhard
CS Department D0600, German Cancer Research Centre, Heidelberg, 69120, Germany

SO Cancer Chemother. Pharmacol. (2001), 47(6), 461-466
CODEN: CCPHDZ; ISSN: 0344-5704

PB Springer-Verlag

DT Journal

LA English

CC 1 (Pharmacology)

AB Platinum complexes are essential tools for cancer treatment despite their toxic side effects. Here we describe a new platinum complex with sulphurs as complexing atoms (**thioplatin**). Purpose: To demonstrate that the antitumoral activity of a new sulfur-contg. platinum compd. (**thioplatin**) depends on a slightly acidic pH. Methods: Platinum uptake by tumor cells and interaction with DNA was detd. at slightly acidic or alk. pH. To demonstrate low in-vivo toxicity the effects of **thioplatin** on body wt., blood urea nitrogen, white blood cell count and the histopathol. appearance of small intestines and kidneys were evaluated at doses that displayed antitumoral effects against human small-cell lung cancer and human colorectal cancer xenotransplants in nude mice. Results: The slightly acidic pH optimum of **thioplatin** was proven by the altered electrophoretic mobility of plasmid DNA, quantitation of the platinum content in the DNA of tumor cells and cytotoxicity studies. **Thioplatin** displayed antitumoral activity without severe side effects such as wt. loss, renal ischemia, destruction of villi in the small intestine or leukopenia as obsd. at comparable doses of cisplatin. Furthermore, probably due to its lipophilic nature, **thioplatin** was taken up readily even by cisplatin-resistant cells. In vivo studies with human tumor xenografts in nude mice showed a therapeutic index of **thioplatin** five to ten times higher than that of cisplatin.

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RE

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